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Certificate No.: TC- 5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Date: 24-02-18

Lab ID	:	CP-RW-2018-02-21-01
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-02-18
Sample ID No	:	2018-02-21-01/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	21-02-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.1	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.2		
Strength	Aggregate Impact Value	20.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.6	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.4	Maximum 2%	IS:2386 Part III

Note:-

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Technical Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-02-27-01**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 02-03-18**
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-02-18
Sample ID No	:	2018-02-27-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	27-02-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	13.1		
Strength	Aggregate Impact Value	21.0	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.1	Maximum 2%	IS:2386 Part III

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-02-19-02** **Date: 20-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP,
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-18
Sample ID No	:	2018-02-19-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	19-02-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	63	60 to 70
2	Softening Point, °C	48.4	Min. 40°C
3	Ductility, cm	100	Min. 75cm
4	Flash point, °C	233	Min. 220°C
	Fire point, °C	248	

Note:-

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2018-02-12-02 Date: 14-02-18

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14

Agency : Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer Reference : EE/DD/LOA/1665/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-18

Sample ID No : 2018-02-12-02/01

Type of Mix : GSB (Granular Sub Base)

Date of test : 12-02-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	199	199	2.0	98.0	80-100
26.5	1477	1676	16.8	83.2	55-90
9.5	1966	3642	36.4	63.6	35-65
4.75	1378	5020	50.2	49.8	25-55
2.36	1751	6771	67.7	32.3	20-40
0.425	1576	8347	83.5	16.5	10-25
0.075	1302	9649	96.5	3.5	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	23.80%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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Technical Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2018-02-12-02 Date: 14-02-18
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-18
Sample ID No	:	2018-02-12-02/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	12-02-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	199	199	2.0	98.0	80-100
26.5	1477	1676	16.8	83.2	55-90
9.5	1966	3642	36.4	63.6	35-65
4.75	1378	5020	50.2	49.8	25-55
2.36	1751	6771	67.7	32.3	20-40
0.425	1576	8347	83.5	16.5	10-25
0.075	1302	9649	96.5	3.5	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	23.80%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-02-15-01** **Date: 17-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-18
Sample ID No	:	2018-02-15-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15-02-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	309	309	2.8	97.2	95-100
22.4	2198	2507	22.8	77.2	60-80
11.2	2088	4595	41.8	58.2	40-60
4.75	2314	6909	62.8	37.2	25-40
2.36	1722	8631	78.5	21.5	15-30
0.6	618	9249	84.1	15.9	8-22
0.075	1367	10616	96.5	3.5	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2018-02-15-01
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & drains at Sheshadri Layout Cross roads and West Side roads of byraveshwara Nagara in Bagalagunte ward No.14
Agency	:	Sri Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1665/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-18
Sample ID No	:	2018-02-15-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15-02-18
Oven Dry Weight	:	11000 Grams

Date: 17-02-18

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	216	216	2.0	98.0	95-100
22.4	2198	2414	21.9	78.1	60-80
11.2	2109	4523	41.1	58.9	40-60
4.75	2588	7111	64.6	35.4	25-40
2.36	1569	8680	78.9	21.1	15-30
0.6	598	9278	84.3	15.7	8-22
0.075	1562	10840	98.5	1.5	0-5

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